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Stefan Leininger, Jun Fan, Marion Schmitz, and Peter J. Stang

Archimedean solids: Transition metal mediated rational self-assembly of supramolecular-truncated tetrahedra

PNAS 2000 97: 1380-1384; published online before print as 10.1073/pnas.030264697

▶ ...A family of **nanoscale**-sized supramolecular cage compounds with a polyhedral framework is prepared by self-assembly from tritopic building blocks...

▶ ...Platonic solids embody a family of five convex uniform **polyhedra** that are made of the same regular polygons, whereas the family of Archimedean solids consists...

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☐ PERSPECTIVES:

George M. Whitesides and Mila Boncheva

Supramolecular Chemistry And Self-assembly Special Feature: Beyond molecules: Self-assembly of mesoscopic and macroscopic components

PNAS 2002; 99: 4769-4774.

▶ ...There are now three ranges of sizes of components for which self-assembly is important: molecular, **nanoscale** (colloids, nanowires and nanospheres, and related structures), and meso- to macroscopic (objects with dimensions from...

▶ ...In **nanoscale**, mesoscopic, and macroscopic self-assembly systems, the components interact in ways that are analogous to those...

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